

1 <sup>27</sup><sub>25.</sub> An interface system as defined in claim <sup>26</sup><sub>24</sub> wherein said cellular wireless  
 2 network has a plurality of cells, each having a base station for providing wireless  
 3 communications to NIUs within each cell and for providing a point to point inter-cell radio  
 4 link with other base stations within the network..

1 <sup>28</sup><sub>26.</sub> An interface system as defined in claim <sup>27</sup><sub>25</sub> wherein one of the base stations is  
 2 controlled by a network manager to provide configuration parameters for each of said first  
 3 one or more and said second one or more interface cards in each of the multi-services switch  
 4 in each base station.

*I cont.*  
 1 <sup>29</sup><sub>27.</sub> An interface system as defined in claim <sup>28</sup><sub>26</sub> wherein the cellular wireless  
 2 network is connected to an asynchronous transfer mode (ATM) network.

*D/ cont.*  
 1 <sup>30</sup><sub>28.</sub> An interface system as defined in claim <sup>26</sup><sub>24</sub> wherein each cell is sub-divided  
 2 into sectors and each base station has a sectored antenna for communicating with NIUs  
 3 located in each sector within the cell.

*Sub G2*  
 1 <sup>31</sup><sub>29.</sub> An interface system as defined in claim <sup>30</sup><sub>28</sub> wherein each of said first one or  
 2 more interface cards and each of said second one or more interface cards communicates with  
 3 said sectored antenna via one or more combiners.

*Sub G2*  
 1 <sup>32</sup><sub>30.</sub> An interface system as define in claim <sup>27</sup><sub>25</sub> wherein said inter-cell radio link  
 2 between respective base stations is in a ring configuration.

1 <sup>33</sup><sub>31.</sub> An interface system as defined in claim <sup>27</sup><sub>25</sub> wherein said inter-cell radio link  
 2 between respective base stations is in a mesh configuration.

*Sub G2*  
 1 <sup>34</sup><sub>32.</sub> A base station in a cell of a cellular, wireless communications network for  
 2 providing wireless, bi-directional communication with network interface units (NIUs)  
 3 within the cell and for providing a point to point inter-cell radio link with a base station in a  
 4 neighboring cell, the base station having a multi-services switch equipped with a first radio  
 5 interface card for providing the wireless, bi-directional communication between the base

6 station and the NIUs and a second interface card for providing the point to point radio inter-  
 7 ~~cell link.~~

1 <sup>35</sup>~~35~~. A base station as defined in claim <sup>34</sup>~~32~~, wherein said cell is sub-divided into  
 2 multiple sectors and said multi-services switch is equipped with a first radio interface card for  
 3 each sector.

1 <sup>36</sup>~~34~~. A base station as defined in claim <sup>35</sup>~~33~~ connected to an Asynchronous Transfer  
 2 Mode backbone for providing broadband wireless service to said NIUs.

1 <sup>37</sup>~~35~~. A base station as defined in claim <sup>36</sup>~~34~~ connected to a network manager for  
 2 receiving configuration parameters respecting said first and second radio interface cards.

1 <sup>38</sup>~~36~~. A base station as defined in claim <sup>37</sup>~~35~~ wherein said configuration parameters  
 2 include operating frequencies, modulation rates, forward error correction values, and  
 3 transmission power levels.

1 <sup>39</sup>~~37~~. A base station as defined in claim <sup>35</sup>~~33~~ wherein said second interface card is  
 2 equipped to provide point to point, bi-directional radio communication with base stations in  
 3 neighboring cells over said radio inter-cell link.

1 <sup>40</sup>~~38~~. A base station as defined in claim <sup>39</sup>~~37~~ wherein said radio inter-cell link is in a  
 2 ring configuration.

1 <sup>41</sup>~~39~~. A base station as defined in claim <sup>39</sup>~~37~~ wherein said radio, inter-cell link is in a  
 2 mesh configuration.

1 <sup>42</sup>~~40~~. A method of providing communications between base stations in a cellular,  
 2 wireless network having multiple cells, each of the multiple cells having a base station, the  
 3 method comprising providing a multi-services switch at each of the base stations, each  
 4 switch being equipped with a radio interface card for providing bi-directional communication  
 5 with other base stations in the network; providing a network manager in association with at  
 6 least one of the base stations for configuring the radio interface cards, and providing a